

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				ATTY DOCKET NO. 03500.013403.1		Unassigned - Div. of APPLICATION NO. 09/271,887	
				APPLICANT TORU KOIZUME ET AL.			
				FILING DATE Herewith		GROUP Unassigned	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5675158	10/97	Lee	257	233	
		5872371	2/99	Guidash et al.	257	230	
		5880495	3/99	Chen	257	233	1/8/98
		5892253	4/99	Merrill	257	292	3/26/97
		5881184	3/99	Guidash	382	321	3/22/96
		6107655	8/00	Guidash	257	233	8/15/97
		5245201	9/93	Kozuka et al.	257	53	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	JP	59-198756	11/84	Japan			Abstract and partial translation
	JP	8-335690	12/96	Japan			Abstract and partial translation
	EP	0738010	10/96	Europe	H01L	17/148	
	EP	0809299	11/97	Europe	H01L	27/146	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Lee et al., "An Active Pixel SensorTechnology", IEEE Workshop, 1995.					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

d) REMARKS

The claims are 16-23 with claims 16 and 19 being independent.

This application is a division of Application No. 09/271,887. Claims 16-23 generally correspond to former claims 7-10 and 12-14 which were restricted out of the parent application. It is a feature of the present claimed invention that the second semiconductor region is formed by a plurality of ion implantations. Support for the phrase "plurality of ion implantations" is found in Figs. 7A, 7B and 8 directed to the fourth embodiment of the present invention as set forth on page 23, line 13 to page 25, line 20. For example, boron, phosphor and BF_2 are ion implanted.

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure under 37 C.F.R. §1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98 the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are found in the filewrapper of the parent application.

It is respectfully requested that the above information be considered by the Examiner and a copy of the enclosed Form PTO-1449 be returned indicating such information has been considered.